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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,694	10/18/2005	Yoshitaka Izumoto	IZUMOTO I	2025
	7590 03/27/200 D NEIMARK, P.L.L.C		EXAMINER	
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SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary Examiner	· · · · · · · · · · · · · · · · · · ·						
Examiner	,	Application No.	Applicant(s)				
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 23-77 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s)	Status						
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Application/Control Number: 10/553,694

Art Unit: 1645

DETAILED ACTION

It is noted that the preliminary amendment filed 10-18-05 has the claims misnumbered. Claim number 69 is improperly numbered "49". Applicants should submit a new amendment in compliance with 37 CFR 1.121 and 37 CFR 1.126 for examination.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, 23-67, drawn to fusion protein immunogens and compositions thereof.

Group II, claim(s) 68-77, drawn to methods of using the fusion protein immunogens to produce antibodies.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the technical feature of the invention is a fusion protein comprising an antigen and a folding factor linked by at least one peptide bond. This technical feature is not special within the meaning of PCT Rule 13.2 because it does not define a contribution over the art. Fusion proteins of antigens and protein-proylisomerase chaperones (folding factors) were known to the art prior to Applicant's invention as evidenced by Scholz (WO 03/000878; published January 3, 2003) which teaches PPIases (FkpA, SlyD and trigger factor) fused to a foreign protein (see claims and abstract). Harrison et al (US Patent No. 6,207,420, issued March 27, 2001) teaches SylD

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as a fusion partner to increase solubility of recombinant proteins (see Table 2, column 5; and claims).

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species A - all the folding factors recited in the specification

Species B - all the antigens recited in the specification

Applicant is required, in reply to this action, to elect a single species from A and a single species from B to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: 1, 25-43, 46-50, 55, 56, 63-65, 68-70 and 73-75.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the technical feature of the invention is a fusion protein comprising an antigen and a folding factor linked by at least one peptide bond. This technical feature is not special within the meaning of PCT Rule 13.2 because it

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does not define a contribution over the art. Fusion proteins of antigens and protein-proylisomerase chaperones (folding factors) were known to the art prior to Applicant's invention as evidenced by Scholz (WO 03/000878; published January 3, 2003) which teaches PPIases (FkpA, SlyD and trigger factor) fused to a foreign protein (see claims and abstract). Harrison et al (US Patent No. 6,207,420, issued March 27, 2001) teaches SylD as a fusion partner to increase solubility of recombinant proteins (see Table 2, column 5; and claims).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia A. Duffy whose telephone number is 571-272-0855. The examiner can normally be reached on M-Th 7:30 pm - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

atricia A. Dutty

Primary Examiner

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